Amendments to the Claims

- 1. (currently amended) A method for background adjustment, the method comprising:
 - a) estimating a background lightness level in an original image;
- b)——converting pixels in the original image to a luminance-chrominance color space, wherein pixels having lightness levels substantially equal to the background lightness level are mapped as background pixels such that their lightness values are set substantially equal to a value corresponding to white;
 - e) comparing chroma values for the background pixels to at least one threshold;
- d)—adjusting lightness levels for any background pixels having chroma values above a first threshold to a new lightness level indicating that color of that pixel is to be preserved, producing lightness adjusted pixels;
- e)—removing chroma from any background pixels having chroma values below a second threshold indicating that the color of that pixel should be removed, producing color adjusted pixels; and
- f) --- converting to a color space of an output device, wherein conversion is performed on all pixels including any lightness adjusted pixels and color-adjusted pixels.
- 2. (original) The method of claim 1, wherein estimating a background lightness level further comprises building histograms of each line of the original image and then determining a high peak value in the histograms.
- 3. (original) The method of claim 2, wherein determining a high peak value in the histograms further comprises using a minimum white to determine if the high peak value is used in estimating overall background lightness level.
- 4. (original) The method of claim 1, wherein the first and second thresholds are substantially equal to 20 for text mode, and 10 for all other modes.
- 5. (original) The method of claim 1, wherein the value corresponding to white is 255

- 6. (original) The method of claim 5, wherein the new lightness level is substantially equal to 254.
- 7. (original) The method of claim 1 wherein color is removed from a pixel by setting the chrominance components of that pixel value in the luminance-chrominance color space substantially equal to zero.
- 8. (original) The method of claim 1, wherein the color space of the output device is CMYK space.
- 9. (original) The method of claim 1, wherein the color space of the output device is CMY space.
- 10. (original) The method of claim 1, wherein the color space of the output device is RGB space.
- 11. (original) The method of claim 1, wherein the first and second thresholds are equal.
- 12. (canceled)
- 13. (canceled)
- 14. (canceled)
- 15. (currently amended) A color reproduction device, comprising:
- a)——a scanning module operable to scan a color original and produce input data representative of the color original;
 - b)——a background suppression module operable to:
 - i) --- determine a background lightness level; and
- ii) map pixels of input data to luminance-chrominance color space such that pixels having a lightness level substantially equal to the background lightness level are mapped as background pixels having a lightness value corresponding to white;
 - c) a chroma adjustment module, operable to:

- i) determine if chroma values for the background pixels are above a threshold;
- ii)—adjust any background pixels having a chroma value above the threshold to a lightness level different from the lightness corresponding to white; and
- iii)—remove chroma from any background pixels having a chroma value below the threshold; and
- d)——an output conversion module, operable to convert all pixels in the luminance-chrominance color space to an output space.
- 16. (original) The color reproduction device of claim 15, wherein the device is a copier.
- 17. (original) The color reproduction device of claim 15, wherein the device is a fax machine.
- 18. (original) The color reproduction device of claim 15, wherein the background suppression module includes lookup tables operable to map the pixels of input data to luminance-chrominance color space.
- 19. (original) The color reproduction device of claim 18, wherein the lookup tables are only used on pixels with values other than the value corresponding to white.